



431 River Road
Bow, NH 03304

November 16, 2020

Submitted on-line via NetDMR

U.S. Environmental Protection Agency
Water Technical Unit (SMR-04)
OES4 – SMR
5 Post Office Square - Suite 100
Boston, MA 02109-3912

Reference: NPDES Permit No. NH0001465, Merrimack Station, GSP Merrimack LLC,
issued May 22, 2020.

Dear Sir/Madam:

Merrimack Station
Monthly NPDES Discharge Monitoring Report
October 2020

In compliance with Part I, Section B.1., of the NPDES permit (see Reference), Granite Shore Power LLC (GSP) herein submits the monthly NPDES report for Merrimack Station for the month of October. With two exceptions, all sampling and analyses were conducted by station personnel in accordance with EPA approved procedures referenced at 40 CFR Part 136. Eastern Analytical, Inc. of Concord, NH, collected the samples and performed the analyses for 1) oil and grease, copper, and total suspended solids at Outfall 003A, and 2) dissolved oxygen at Outfall 003. As instructed by the agencies, GSP now reports a concentration of zero ("0") when the analytical result is less than the method detection limit (MDL). For this report, the following MDLs were used: Oil & Grease = 5.0 mg/l (EPA 1664 Rev. B), Total Suspended Solids = 5.0 mg/l (SM 2540 D-11).

The pH at Outfall 003 (Station S-0) was recorded outside the range of 6.5 SU to 8.0 SU on several days during October. With both units shut down for nearly the entire month, the lack of cooling water flow from the station may have aggravated in-situ monitoring by creating stagnant conditions and allowing river debris and vegetation to encroach upon the monitoring equipment. Compliance was maintained with the permit however, as the effluent pH mostly tracked the naturally occurring river pH at Station N-5 (see the attached data sheets), and discrepancies were within the analytical limits of the equipment accuracy and precision. As such, these pH values were not the result of activities at Merrimack Station and should not be recorded as violations in the Integrated Compliance Information System, Enforcement and Compliance History Online, or any other EPA compliance database.

November 16, 2020

This report is required by, and prepared specifically for, the U.S. Environmental Protection Agency (EPA). It presents truly, accurately and completely, the observed measurements and analyses required by the EPA to be performed or submitted, but only such observed results. It is not intended as an assertion of the accuracy of any instrument, reading, or analytical result, nor is it an endorsement of the suitability of any analytical or measurement procedure.

If you have any questions regarding this report, please call Allan Palmer, Senior Engineer, at (603) 230-7951.

Sincerely,

GRANITE SHORE POWER

A handwritten signature in black ink, reading "Elizabeth H. Tillotson". The signature is written in a cursive style with a large, stylized "E" and "T".

Elizabeth H. Tillotson
Executive Director of Administration & Regulatory Affairs

Enclosures

GSP MERRIMACK LLC
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM

MONTHLY SUMMARY REPORT FOR October 2020

STATION: N5

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
10/01/20	7.00	1800	6.92	6.80	2400	94
10/02/20	6.84	1630	6.79	6.75	2400	96
10/03/20	7.01	1800	6.82	6.69	0800	96
10/04/20	7.45	1600	7.07	6.78	0615	96
10/05/20	7.66	1630	7.16	6.82	0730	96
10/06/20	7.21	1600	7.01	6.86	0815	96
10/07/20	7.23	1645	7.05	6.90	0730	96
10/08/20	7.45	1800	7.17	6.97	0615	96
10/09/20	7.17	1545	7.04	6.92	0630	96
10/10/20	7.03	0015	6.92	6.86	0830	96
10/11/20	6.96	1530	6.89	6.83	0845	96
10/12/20	6.92	1530	6.88	6.80	2400	96
10/13/20	6.83	1445	6.80	6.76	0445	96
10/14/20	6.96	1030	6.76	6.72	2400	96
10/15/20	6.76	0745	6.69	6.63	2330	96
10/16/20	6.66	0630	6.64	6.63	0015	96
10/17/20	6.66	1515	6.64	6.62	1045	96
10/18/20	6.68	1100	6.63	6.58	2400	96
10/19/20	6.86	1300	6.52	6.48	1215	96
10/20/20	6.57	2400	6.54	6.51	1300	96
10/21/20	6.59	0345	6.56	6.53	2245	96
10/22/20	6.56	0730	6.54	6.53	2400	96
10/23/20	6.55	2045	6.54	6.53	0030	96
10/24/20	6.58	2145	6.55	6.53	1430	96
10/25/20	6.61	1345	6.59	6.57	0145	96
10/26/20	6.62	1445	6.60	6.59	2300	96
10/27/20	6.60	2130	6.59	6.58	0845	96
10/28/20	6.61	2215	6.59	6.58	0945	96
10/29/20	6.63	1830	6.61	6.58	0300	96
10/30/20	6.62	1100	6.61	6.59	0445	96
10/31/20	6.64	1400	6.63	6.61	1630	96
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AVERAGE	6.86		6.75	6.68		
STD DEV.:	0.30		0.20	0.14		

GSP MERRIMACK LLC
MERRIMACK GENERATING STATION
ENVIRONMENTAL MONITORING PROGRAM
MONTHLY SUMMARY REPORT FOR October 2020

STATION: Zero

PARAMETER: PH

DAY	MAXIMUM (PARAM)	TIME	DAILY AVERAGE	MINIMUM (PARAM)	TIME	#of INT.
10/01/20	7.37	1730	6.99	6.73	0630	94
10/02/20	6.92	0015	6.75	6.59	2045	96
10/03/20	6.87	1800	6.74	6.64	0630	96
10/04/20	6.92	1315	6.78	6.65	0730	96
10/05/20	7.10	1100	6.79	6.51	2400	96
10/06/20	7.11	1945	6.70	6.19	0900	96
10/07/20	7.51	1530	7.02	6.53	0430	96
10/08/20	8.28	1615	7.38	6.85	0630	96
10/09/20	7.83	1730	7.32	6.96	0745	96
10/10/20	7.87	1715	7.25	6.86	0715	96
10/11/20	7.16	1830	6.95	6.77	0700	96
10/12/20	6.99	1715	6.90	6.77	0645	96
10/13/20	6.91	0045	6.75	6.65	0900	96
10/14/20	7.10	0930	6.74	6.61	0545	96
10/15/20	6.93	1645	6.72	6.61	2215	96
10/16/20	6.75	1100	6.64	6.54	2400	96
10/17/20	6.86	1700	6.65	6.53	0030	96
10/18/20	6.68	1645	6.58	6.48	0715	96
10/19/20	6.99	1245	6.65	6.54	0700	96
10/20/20	6.74	0015	6.60	6.47	0800	96
10/21/20	6.70	1115	6.67	6.63	2130	96
10/22/20	6.70	0115	6.65	6.55	1115	96
10/23/20	6.73	1600	6.68	6.60	2400	96
10/24/20	6.63	0100	6.52	6.46	2400	96
10/25/20	6.53	1545	6.48	6.42	0715	96
10/26/20	6.50	1645	6.47	6.43	2400	96
10/27/20	6.54	1415	6.46	6.41	0400	96
10/28/20	6.51	1345	6.47	6.41	0445	96
10/29/20	6.50	1645	6.45	6.43	1045	96
10/30/20	6.46	0015	6.39	6.31	2330	96
10/31/20	6.39	1745	6.32	6.28	2400	96
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AVERAGE	6.94		6.72	6.56		
STD DEV.:	0.44		0.26	0.17		